

## SAMPLE SOP FOR MS IN BIOMEDICAL ENGINEERING

I have always been fascinated by how biology and chemistry work in conjunction with therapeutical studies to improve social health and the quality of human life in general. It was my curiosity to explore these combinations that steered me to an Engineering degree in Biotechnology. Later, my work at a sophisticated medical establishment has opened me to the possibilities of higher studies in Biomedical Engineering. My quest to find a course offering practical learning options and research prospects pushed me to pursue the Masters in Biomedical Engineering from your prestigious university.

I did my schooling at Little Flower Public School and completed my high school education with a CGPA of 8.7. Next, I bagged 79% marks in my Higher Secondary examination. I was adamant about mastering my skills from a distinguished academy and dedicated a year to prepare for entrance examinations and secured a seat at an undergraduate degree in Biotechnology Engineering from GD Goenka University. The course bestowed me with relevant knowledge on electronics, structural biochemistry, bioenergetics, and structural biochemistry among other topics.

I actively follow many interests outside the academic curbs. During my leisure hours, I love reading books, mostly biographies or non-fiction. I also enjoy drawing comics and posting them online on Instagram. This has been my primary means for self-expression through a public platform. The small but growing audience for my artistic endeavors has given me much encouragement to continue drawing as a hobby. I hope that I can develop it into a side hustle in the near future.

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My professional exposure comes from the stint at Astra Multispecialty Hospital in Mangalore. The experiences here adequately supplemented the knowledge that I had gained through my undergraduate course. I was able to understand the practical applications and functioning of various medical devices. During my initial training session at the hospital, I got the chance to disassemble an ultra-sound scanning machine under the supervision of my seniors. I also took part in testing the components, finding and overhauling the faults, and assembling the machine again. Over the last two years, I had access to explore the functioning of many high-end machines. These experiences have helped me unearth the missing link between theoretical knowledge and practical application.

Working along the side of physicians, therapists, and other medical staff, I have observed a wide range of medical apparatus being administered for therapeutic procedures. From joint implants to defibrillators, and from pacemakers to biomedical scanners, all equipment has potential for enhancement in its utility. My insights into the improvements that can be made to these machines and their design will give a sense of direction to my researches. A master's in Biomedical Engineering will allow me to specialize in a discipline with huge research potential. My decision to study at an overseas university was aimed at maximizing the benefits of my education. The experience of working in different medical departments will facilitate the completion of this interdisciplinary course..

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Ireland has a wide choice of top-notch engineering colleges that are on par with that of the USA and the United Kingdom despite being more affordable. The country is also renowned for being safe for international students, and being receptive to people from other cultures and countries. This factor personally intrigues me as I have always been inquisitive about various cultures. Finally, the nation has an established biomedical industry that sets the ideal backdrop for this educational pursuit.

I decided to study at the University College of Dublin as it provides a Master's in Biomedical Engineering that remains under the monitoring of the European Medical Society. The academy also couples the course with an internship at the giants of medical industries, making it a comprehensive learning package. The classes from the vanguard of the trade add much value to the course. Such quality regulations and industry exposure were the key factors that my previous education lacked. Although there are a few colleges in India that offer a similar master's course, the research prospects of these programs are minimal. Additionally, the courses offered by the UCD have significant value in the Indian job market.

My acceptance to the M.S. program at your academy will allow me to continue my dream of a research career. The interdisciplinary field of biomedical engineering brings me extensive career opportunities and research possibilities. Upon the conclusion of my master's degree, I wish to follow it up with a doctorate. After my Ph.D., I hope to team up with a research university in the country where I will be able to share my passion for science and research with like-minded peers. The prospect of working as an autonomous researcher to come up with a groundbreaking thesis and interpreting them into meaningful output is my definition of a rewarding career. I am hopeful that this course will innervate my intellect to realize my dreams.